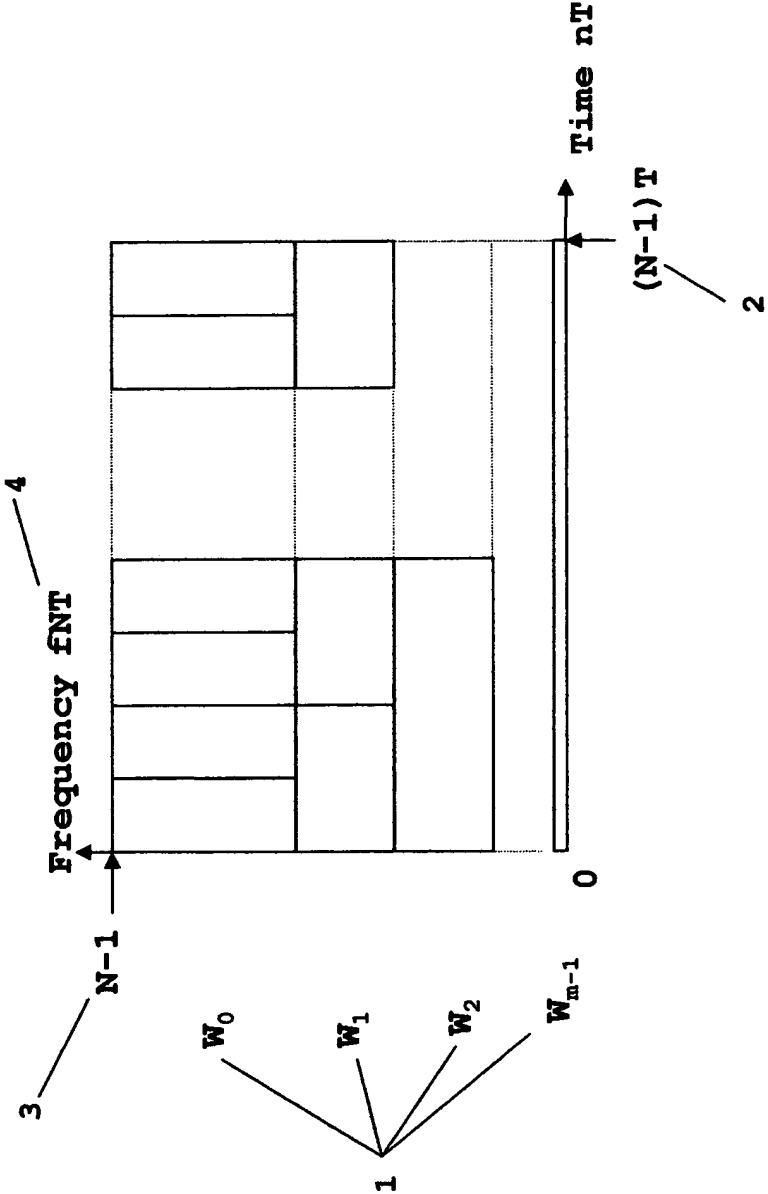


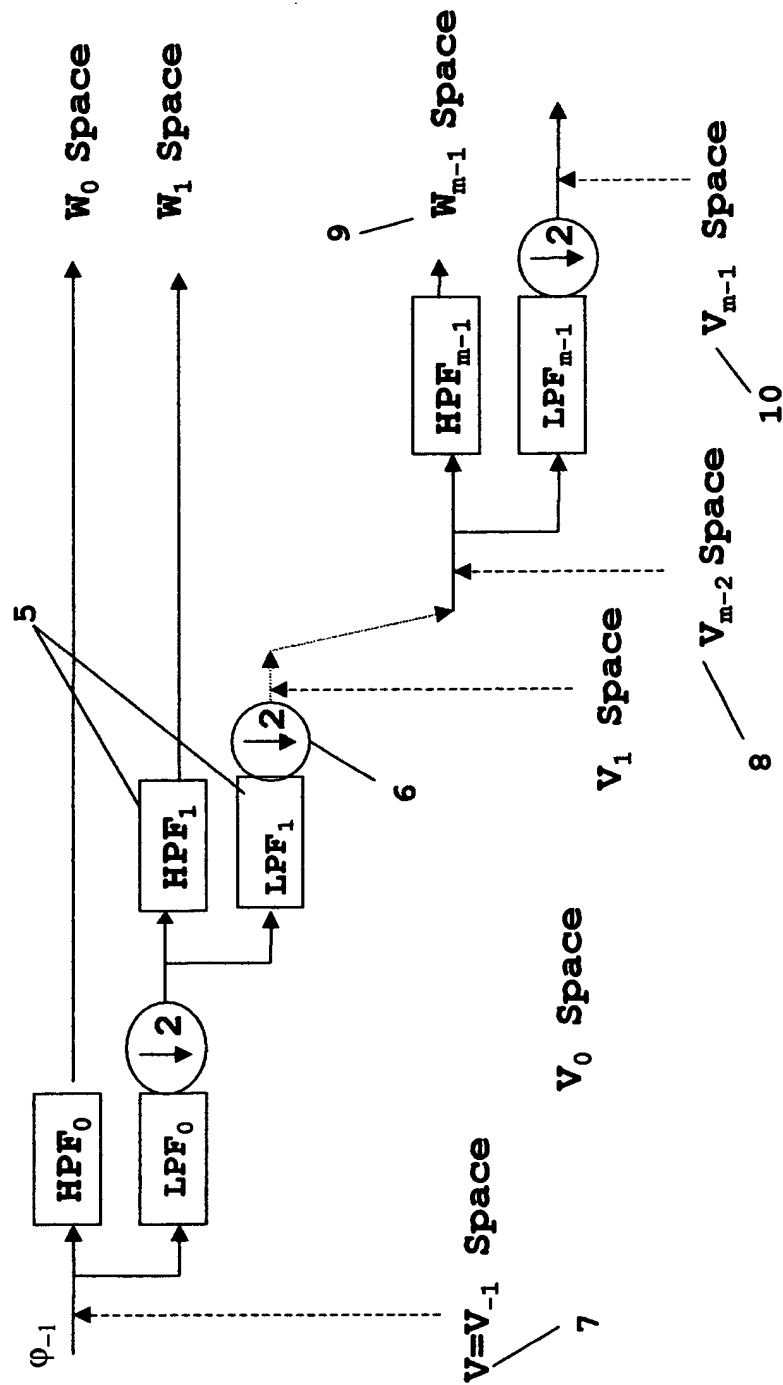
# REPLACEMENT SHEET

**FIG. 1 Prior Art: Wavelet Tiling of an N-Point  
Digital t-f Space**



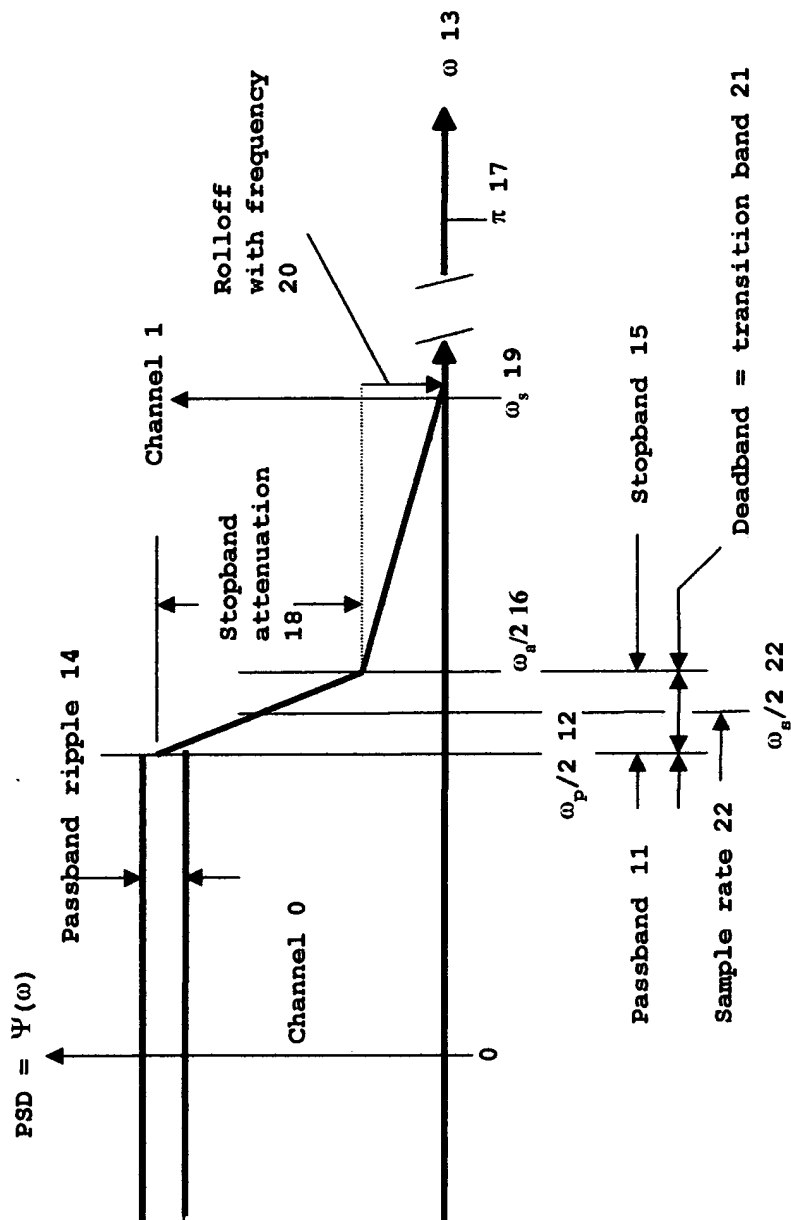
# REPLACEMENT SHEET

FIG. 2 Prior Art: Wavelet Iterated Filter Bank  
for Tiling t-f Space in FIG. 1

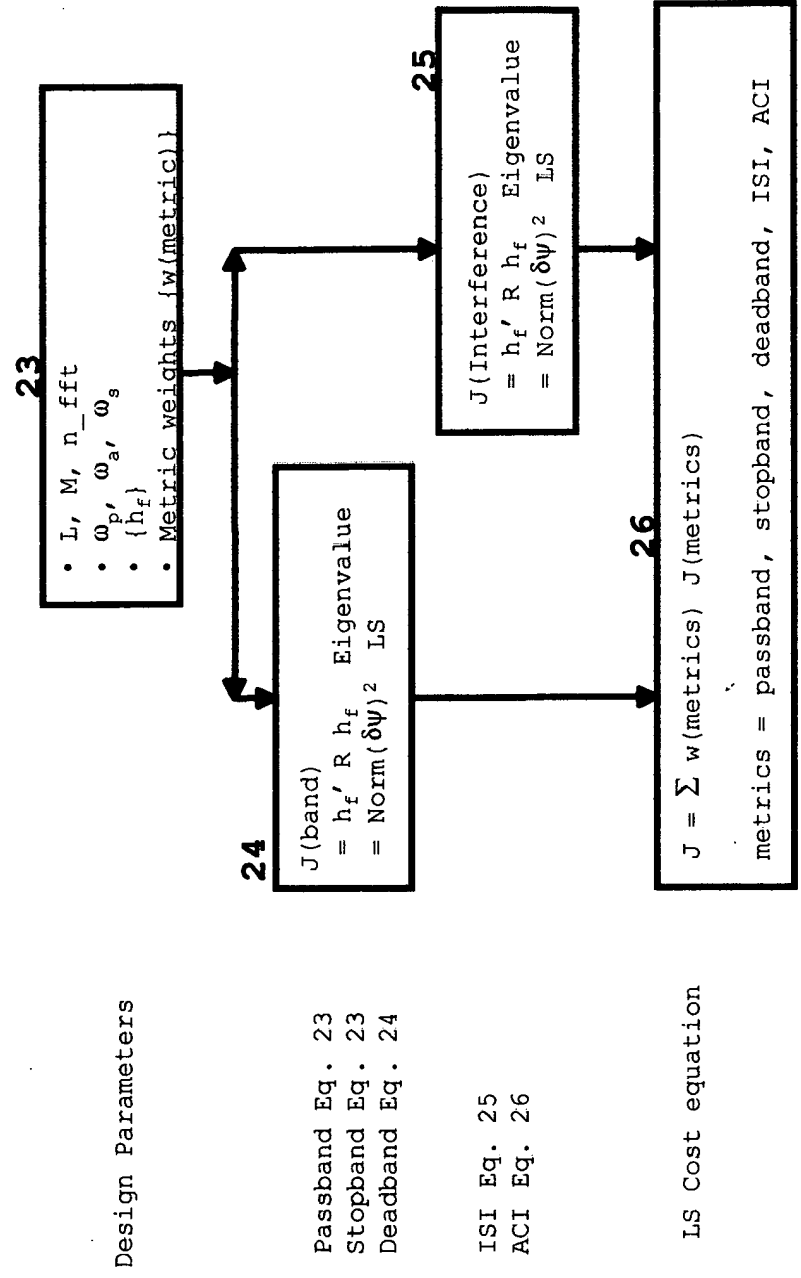


# REPLACEMENT SHEET

FIG. 3 PSD Requirements for Communications

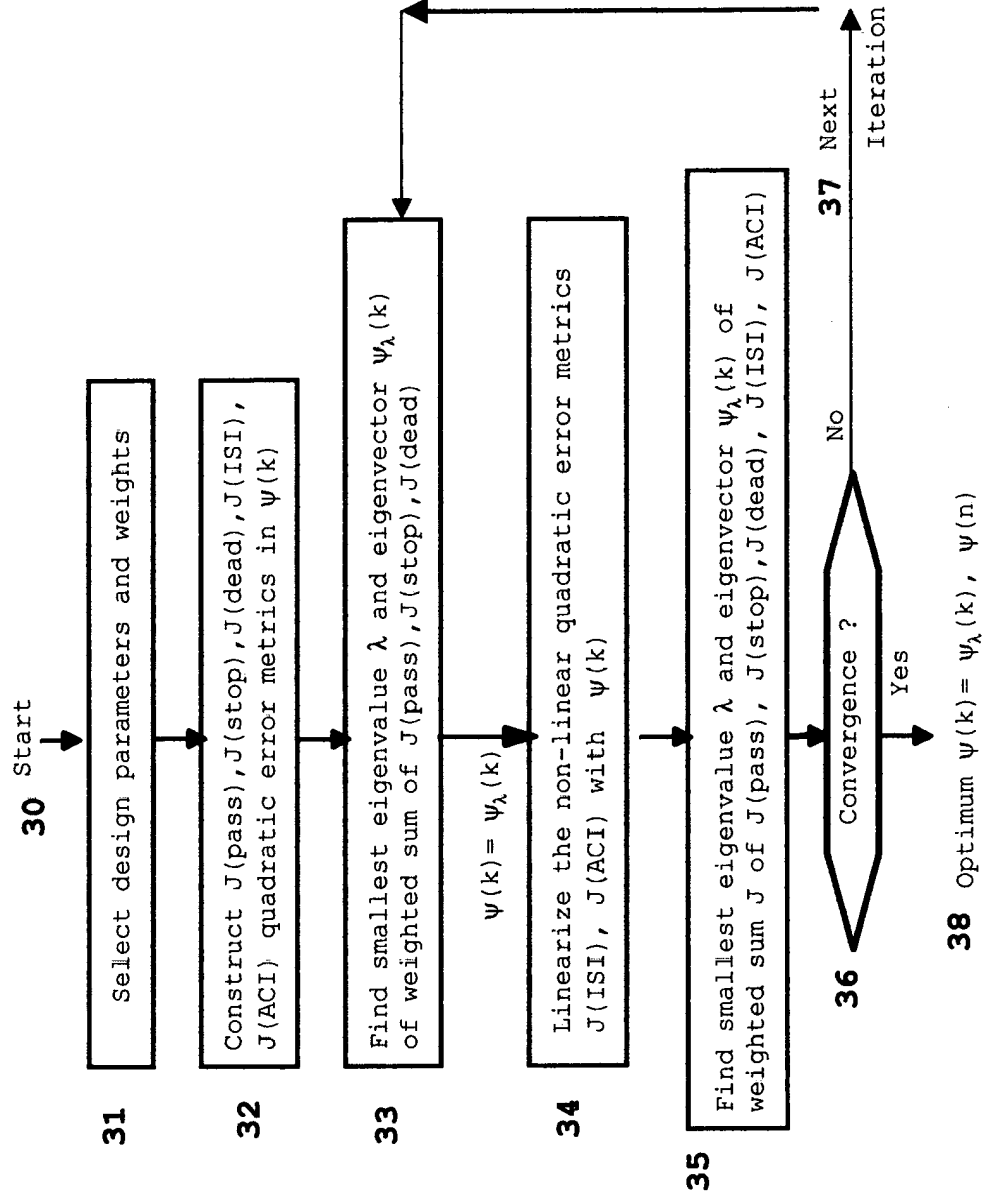


**FIG. 4 LS Metrics and Cost Function**



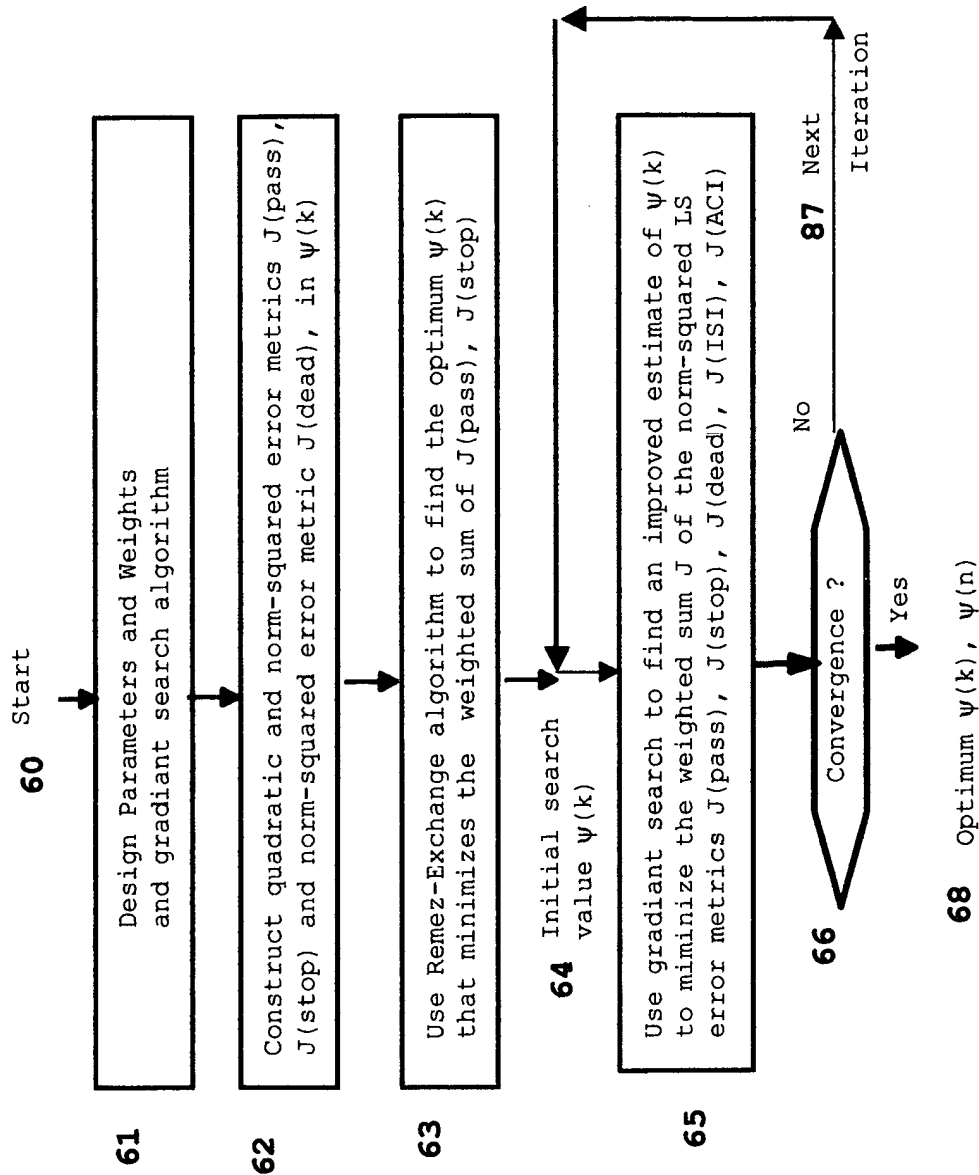
# REPLACEMENT SHEET

**FIG. 5 Mother Wavelet: Eigenvalue Algorithm**

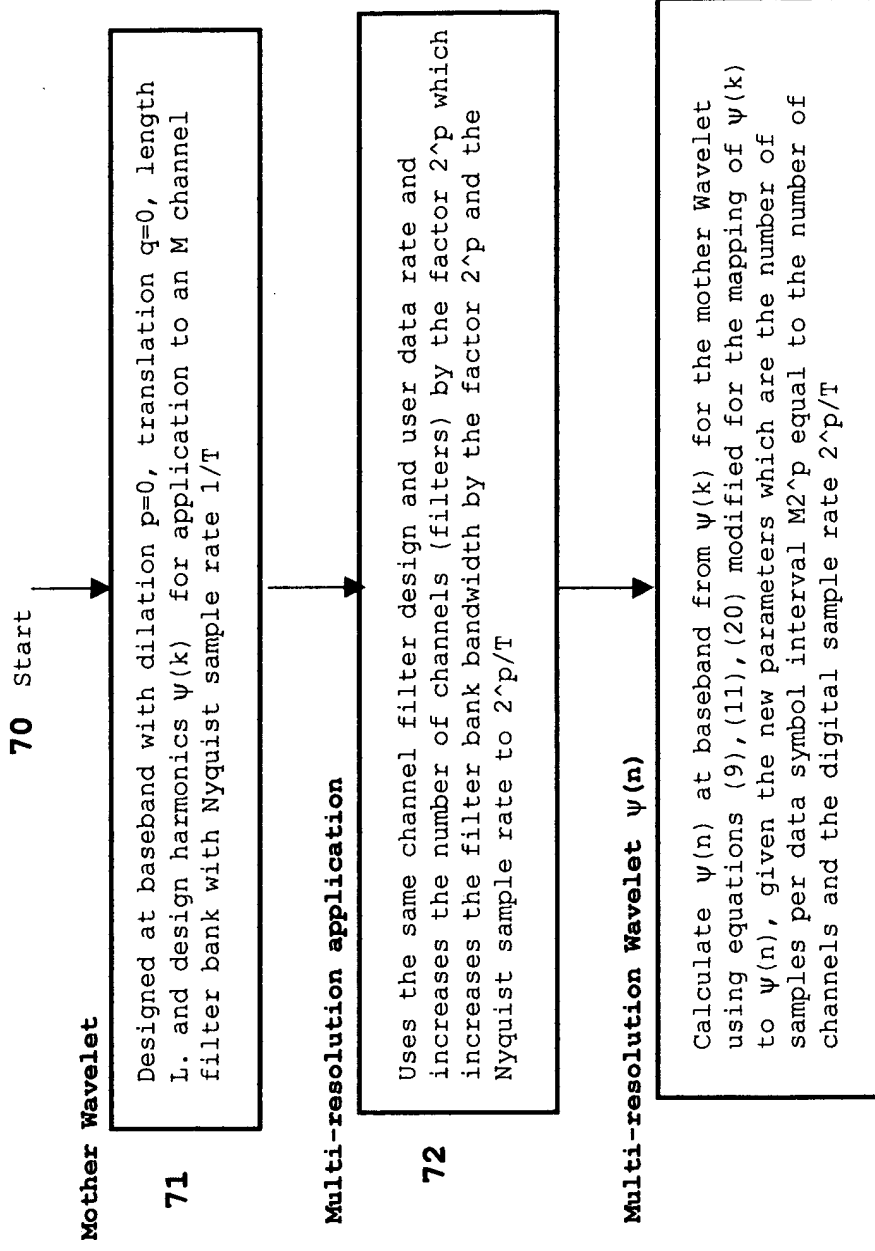


# NEW SHEET

**FIG. 6 Mother Wavelet: Gradient Search Algorithm**

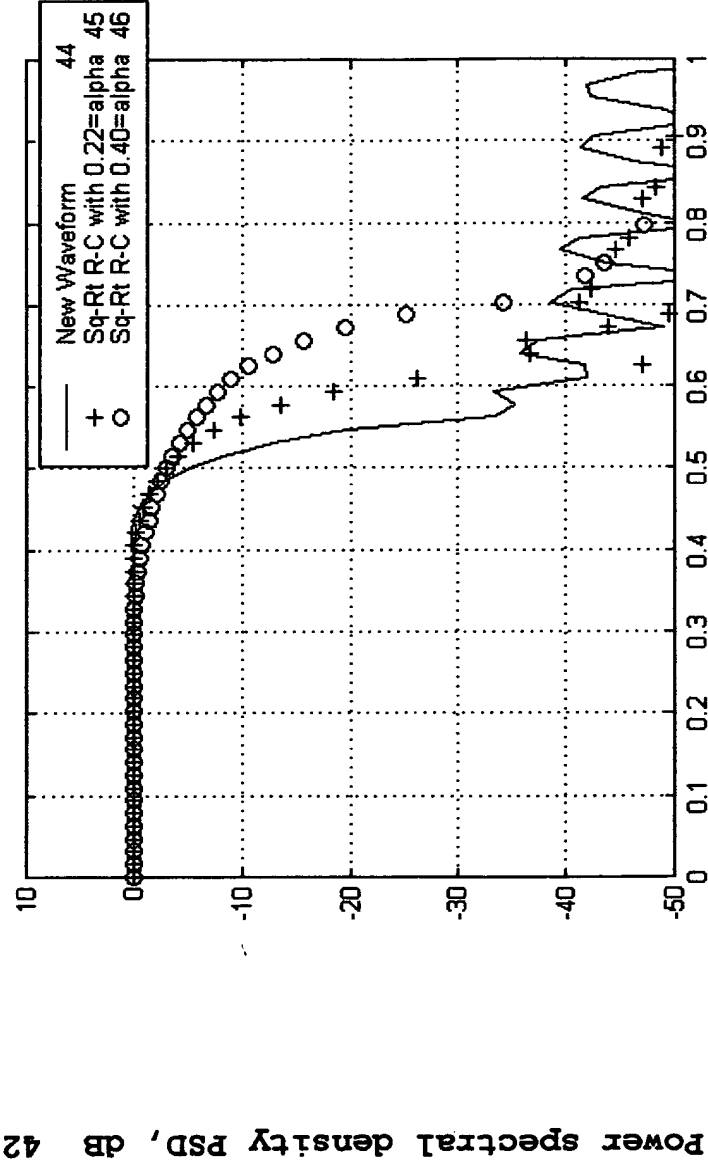


**FIG. 7 Mother Wavelet: Multi-Resolution Algorithm**



REPLACEMENT SHEET

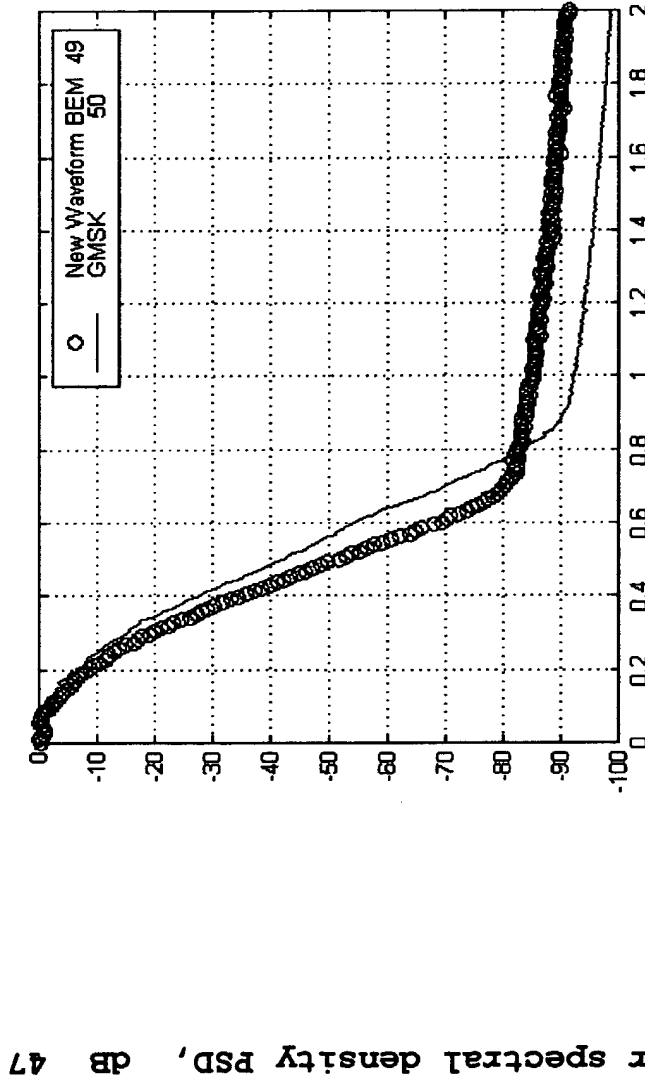
FIG. 8 PSD for New Waveform and Square-Root Raised-Cosine





# REPLACEMENT SHEET

FIG. 9 PSD for New Waveform BEM 49 and GMSK



# REPLACEMENT SHEET

**FIG. 10 Radar Ambiguity Functions of New Waveform  
and Unweighted Chirp Waveform**

New Wavelet Ambiguity Function 51

Unweighted Chirp Ambiguity Function 52

